

2 June 1964

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Statement of Work for System Design Contractor  for Initial System Trade-off Studies and Preparation of System Specification.

*1 Assistance in Evaluating System Production Contractor Proposals.*

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1.  as the

System Design Contractor will conduct such studies as are necessary in order to prepare a system specification with adequate detail to provide guidance, 2 or 3 potential system fabrication contractors.

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Based on the  specifications the system fabrication contractors will conduct a project definition study, the end product of which will be firm cost and schedules for the project.

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2. The initial  studies shall be concentrated on the trade-offs involved in major areas of decision such as:

- a. The use of synchronous versus nonsynchronous orbits.
- b. Propulsion and launch schemes.
- c. Possible antenna configurations and the associated stabilization requirements.
- d. Operating (maintenance) reliability costs.

3. Subsequent to review of these analyses of the Agency and with the concurrence of the Agency, further studies required to define system specifications shall include:

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a.

b.

c. Date of format and reduction scheme

d. Air/ground station compatibility

e. Launch requirements

f. Support requirements

g. Complimentary mission and growth development

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4. Analyses performed by the signal consultant contractor ☐

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which will include targetting and RFI analyses together with signal processing schemes shall be made available to ☐ for incorporation in their studies.

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5. With Agency concurrence ☐ will prepare the system specifications for project definition and will conduct contractor briefing and assist the Agency in evaluating the contractor's performance in project definition.

2 June 1964

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To be incorporated in a letter

Proposal # P 3275-A describes a very broad scope of work which should be pursued. However, the nature of the problem at the present time indicates a more specific approach. It is desirable that a series of tasks be given to the contractor which reflect the progress and information gained as the program proceeds. The first task should be for prototype construction of an  package having the following characteristics:

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- a. The sensor should include acoustint amplitude and time

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- d. General search
- e. A weight limit of 50 lbs
- f. To be delivered by parachute dropped personnel
- g. 25 watts output with 90 to 360 daylight
- h. Interrogation by ~~ULF~~ transponded HF reply

Upon completion of prototype construction and when authorized by OEL Contracts, additional tasks will be instituted.